



FIGURE 3-7  
SYNTHESIS PERCUSSION  
MOTHER BOARD-LAYOUT  
AND THEORY  
(124-000223-001)

SYNTHESIS PERCUSSION MOTHER BOARD  
(124-000223-001)

Associated with 13 Daughter Boards, (124-000259) this assembly generates square-wave outputs in a similar manner to other 380 IC systems in the instrument. However, in this case, keying outputs are supplied from an external source, the Bright Wave Percussion Boards, (124-046769 and 124-046769-001) which provide a percussion envelope as well. These

signals enter Mother Board at J-114, J-115, and J-116, then go to proper Daughter Board, passing through an additional percussion time constant (R1, R11, C1, R6) before reaching the PWB octave input terminals. (1 through 5) repeat and alternate repeat pulses enter Mother Board at J-108. Signal outputs to sine filters are at J-113.